## **Listing of Claims**

1. (Currently Amended) A digital video signal processing system implemented for a mobile communication system, comprising:

a plurality of video conference terminals each including or coupled to a video camera; and

a multipoint controller which mixes video signals received from the video conference terminals to generate a combined video signal and transmits the combined video signal to each of the video conference terminals, wherein the multipoint controller includes:

an inverse coding unit which respectively inverse codes the video signals received from each of the video conference terminals;

a position setting unit which sets positions of video signals output from the inverse coding unit;

a coding unit which encodes the video signals output from the position setting unit; and

a mixer which mixes video signals output from the coding unit into a final image corresponding to the combined video signal.

2. (Original) The apparatus of claim 1, wherein each of the video conference terminals includes:

a scaler which reduces a resolution of a video signal received through the video camera; and

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a transmitter for transmitting the reduced-resolution video signal to the controller.

3. (Currently Amended) The apparatus of claim 1, wherein the position setting unit MCU includes:

an address setting unit which sets a macroblock address for each of the received video signals in the combined video signal.

- 4. (Original) The apparatus of claim 3, wherein the address setting unit sets an absolute address only for a macroblock corresponding to a predetermined position of each slice of a final image corresponding to the combined video signal.
- 5. (Currently Amended) The apparatus of claim 4, wherein the address setting unit codes an address difference value (different) from a previous macroblock for a remainder of macroblocks in each slice of the final image, except the macroblock in which the absolute address is set.
- 6. (Original) The apparatus of claim 1, wherein each of the video conference terminal includes:
- a converter which converts a video signal received through the video camera into a digital video signal;

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a down scaling unit which reduces a resolution of the digital video signal; an encoding unit which compresses an output signal of the down scaling unit; and

a transmitter which transmits an output signal of the encoding unit to the multipoint controller.

7. (Original) The apparatus of claim 6, wherein the converter converts an RGB (Red-Green-Blue) format signal received through the video camera into a YCbCr format video signal.

## 8. (Canceled)

- 9. (Currently Amended) The apparatus of claim 1 [[8]], wherein the address position setting unit sets an absolute address only for a macroblock placed at a predetermined position of each slice of the final image.
- 10. (Currently Amended) The apparatus of claim <u>9</u> [[8]], wherein the address position setting unit codes an address difference value from a previous macroblock for a remainder of the macroblocks in each slice of the final image except the macroblock at the predetermined position.
- 11. (Original) A digital video signal processing system for a mobile communication system, comprising:

unit;

a converter which converts a video signal received through a video camera into a digital video signal;

a down scaling unit which reduces a resolution of the digital video signal; an encoding unit for compressing an output signal of the down scaling

a transmitter which transmits the reduced-reduction compressed video signal;

an inverse VLC unit for decoding the transmitted reduced-resolution compressed video signal through inverse variable length coding, along with other transmitted reduced-resolution compressed video signals;

an address setting unit for setting a macroblock address for each video signal output from the inverse VLC unit;

a VLC unit which compresses the address set-video signals output from the address setting unit through variable length coding; and

a mixer which mixes the compressed video signals output from the VLC unit to form a final image.

- 12. (Original) The apparatus of claim 11, wherein the digital video signal is a YCbCr format video signal.
- 13. (Original) The apparatus of claim 11, wherein the encoding unit implements moving picture compression by a MPEG-4 method.

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- 14. (Original) The apparatus of claim 11, wherein the address setting unit sets an absolute address only for a predetermined macroblock column for each compressed video signal included in the final image.
- 15. (Original) The apparatus of claim 11, wherein the address setting unit codes an address difference value from a previous macroblock for a remainder of macroblocks corresponding to each compressed video signal in the final image except the macroblock at the predetermined position.
- 16. (Currently Amended) A digital video signal processing method for a mobile communication system, comprising:

reducing resolution of a video signal from a video camera;

transmitting the reduced-resolution video signal to a multipoint controller; and

receiving a composite image from the controller, the composite image formed

from the reduced-resolution video signal transmitted to the multipoint controller and at

least one other reduced-resolution video signal, wherein the composite image is

generated by:

inverse coding the reduced-resolution video signals;

setting a position for each video signal output from the inverse coding;

coding the address-set video signals; and

mixing the variable length coded-video signals to form the composite image.

17. (Original) The method of claim 16, wherein the resolution-reducing step includes:

converting the video signal from the video camera into a digital video signal of a predetermined format; and

reducing resolution of the digital video signal by performing moving picture compression, said compressed reduced-resolution video signal being transmitted in the transmitting step.

- 18. (Original) The method of claim 17, wherein the predetermined format is a YCbCR format.
- 19. (Original) The method of claim 17, wherein the moving picture compression is performed in accordance with an MPEG-4 standard.
  - 20. (Canceled)
- 21. (Currently Amended) The method of claim 16 [[20]], wherein said position setting the macroblock address setting step includes:

setting an arrangement region for each of the video signals output from the inverse variable length coding step;

setting an absolute address of a macroblock corresponding to each of the video signals output from the inverse variable-length coding step, said macroblock address corresponding to a predetermined position in the composite image; and

coding an address of a remainder of the macroblocks for each video signal except the macroblock at the predetermined position as a difference value from a previous macroblock.

22. (Currently Amended) A digital video signal processing method for a mobile communication system, comprising:

converting a video signal received from a video camera into a digital video signal of a predetermined format;

reducing resolution of the digital video signal;

compressing the resolution-reduced video signal and transmitting it to a multipoint controller;

decoding the transmitted video signal through inverse variable length coding; setting a macroblock address of the decoded video signal; encoding the video signal through variable length coding;

performing the decoding, setting, and encoding steps for at least one other transmitted video signal; and

mixing the encoded video signals to form a final image and transmitting the final image to a video conference terminal coupled to the video camera, wherein the macroblock address setting step includes:

setting an arrangement region of the decoded video signal within the final image;
setting an absolute address of a macroblock at a predetermined position within
the arrangement region of the final image; and

coding an address of a remainder of macroblocks corresponding to the decoded video signal except the macroblock at the predetermined position as a difference value from a previous macroblock.

- 23. (Original) The method of claim 22, wherein the predetermined format is a YCbCr format.
- 24. (Original) The method of claim 22, wherein the compressing step is implemented in accordance with an MPEG-4 standard.
  - 25. (Canceled)

from a camera; and

- 26. (Currently Amended) A video conferencing system, comprising:
  a plurality of mobile terminals each transmitting a video signal derived
- a multipoint controller which generates a composite video signal from the video signals transmitted from the mobile terminals, and which transmits the composite video signal to the mobile terminals, wherein the multipoint controller includes:

a first coder which inverse codes the video signals from the terminals;

a setting circuit which sets positions of video signals from the coding unit;

a second coder which encodes the video signals from the setting circuit; and

a mixer which mixes video signals from the second coder to form a final

image corresponding to the combined video signal.

- 27. (Original) The system of claim 26, wherein each of the mobile terminals includes:
- a processor that transforms the video camera signal into a reduced-resolution video signal;
- a transmitter that transmits the reduced-resolution video signal to the multipoint controller.
- 28. (Original) The system of claim 27, wherein the processor includes:

  a converter which converts a video camera signal from a first format into
  a second format;
- a scaler which reduces a resolution of the converted video signal by a predetermined factor.
- 29. (Original) The system of claim 28, wherein the first format is a VGA RGB format and the second format is a VGA YCbCr format.

- 30. (Original) The system of claim 28, further comprising:a compressor which compresses the reduced-resolution video signal.
- 31. (Original) The system of claim 30, wherein the compressor compresses the reduced-resolution video signal based on an MPEG-4 standard.
- 32. (Currently Amended) A method for providing video conference services in a mobile communication system, comprising:

receiving video signals from a plurality of mobile terminals;

generating a composite video signal from the received video signals; and

transmitting the composite video signal to the mobile terminals, wherein generating the composite video signal includes:

performing inverse coding for each of the received video signals;

setting an address in the composite video signal for each of the video signals which have been inverse coded;

coding the address-set video signals; and combining the coded, address-set video signals.

- 33-34. (Canceled)
- 35. (Currently Amended) The method of claim <u>32</u> [[34]], wherein [[the]] <u>said</u> setting [[step]] includes <del>for each video signal</del>:

setting an absolute address for one macroblock in each video signal, said absolute address corresponding to a predetermined position in the composite video signal; and

setting addresses of remaining macroblocks in each video signal based on an address difference value applied relative to a previous macroblock.

36. (Original) The method of claim 32, wherein the video signals from each of the terminals is generated by:

transforming a video camera signal into a reduced-resolution video signal; and transmitting the reduced-resolution video signal to a multipoint controller.

37. (Currently Amended) The method of claim 36, wherein the transforming step includes:

converting the video camera signal from a first format into a second format;

reducing a resolution of the converted video signal by a predetermined factor.

38. (Original) The method of claim 37, wherein the first format is a VGA RGB format and the second format is a VGA YCbCr format.

- 39. (Original) The method of claim 37, further comprising:

  compressing the reduced-resolution video signal prior to the transmitting step.
- 40. (Original) The method of claim 39, wherein the compressing step is performed based on an MPEG-4 standard.
- 41. (New) The apparatus of claim 1, wherein the inverse coding unit includes an inverse VLC (variable length coding) unit and the coding unit includes a VLC unit.
- 42. (New) The method of claim 16, wherein the inverse coding includes inverse variable-length coding and the coding includes variable-length coding.
- 43. (New) The system of claim 26, wherein the first coder includes an inverse variable-length coder and the second coder includes a variable-length coder.
- 44. (New) The method of claim 32, wherein said inverse coding includes inverse variable-length coding and said coding includes variable-length coding.